DIN W48×H48mm Analog Timer

Upgrade

Features

- DIN W48×H48mm
- Easy and simple time setting
- Cost-effective
- Easy time setting
- Wide range of time
- Power supply: 100-240VAC 50/60Hz, 24-240VDC



Shaded parts() are changed and added

functions from previous ATE Series.

l Λ.	Please read "Safety Considerations" in operation
<u> </u>	Please read "Safety Considerations" in operation manual before using.

Ordering Information

ΓE 8	- 4 3 D				
	TTT	No mark	Time limit SPDT (1c)+Instantaneous SPST (1a)		
	Control output	D	Time limit DPDT (2c)		
		E	Time limit SPDT (1c)+Instantaneous SPDT (1c)		
		1	1 sec/10 sec/1 min/10 min/1 hour		
	Time range		3 sec/30 sec/3 min/30 min/3 hour		
			6 sec/60 sec/6 min/60 min/6 hour		
Power supply		С	12 sec/12 min/24 min/12 hour/24 hour		
		4	100-240VAC 50/60Hz, 24-240VDC		
Number of plug pins			8-pin plug type		
Item Sockets (PG-08, PS-08(N)) are sold separately.		ATE	Analog timer		

CE c All us

ockets (PG-08, PS-08(N)) are sold separately

Specifications

Model		ATE8-4□	ATE8-4□D	ATE8-4□E			
Function		Power ON Delay Timer					
Control time setting range**1		0.1 sec to 24 hour					
Power supply		100-240VAC∼ 50/60Hz, 24-240VDC≕					
Permissible voltage range		90 to 110% of rated voltage					
Power consumption		Max. 3.5VA (100-240VAC 50/60Hz), Max. 2.0W (24-240VDC)					
Return tim	ne	Max. 200ms					
Time oper	ation	Power ON Start					
Control	Contact type	Time-limit SPDT (1c)+ Instantaneous SPST (1a)	Time-limit DPDT (2c)	Time-limit SPDT (1c)+ Instantaneous SPDT (1c)			
output	Contact capacity	250VAC~ 3A resistive load					
Relay	Mechanical	Min. 5,000,000 operations					
life cycle Electrical		Min. 100,000 operations (250VAC 3A resistive load)					
Repeat error		Max. ±0.3% ±0.01 sec					
Set error		Max. ±5% ±0.05 sec					
Voltage error		Max. ±0.5% ±0.01 sec					
Temp. error		Max. ±2% ±0.01 sec					
Insulation	resistance	Over 100MΩ (at 500VDC megger)					
Dielectric strength		2,000VAC 50/60Hz for 1min					
Noise immunity		±2kV the square wave noise (pulse width 1µs) by noise simulator					
Vibration	Mechanical	0.75mm amplitude at frequency 10 to 55Hz (for 1min) in each X, Y, Z direction for 1 hour					
Vibration	Malfunction	0.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min					
Shock	Mechanical	300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times					
SHOCK	Malfunction	100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times					
Environ-	Ambient temp.	-10 to 55°C, storage: -25 to 65°C					
ment	Ambient humid.	35 to 85%RH, storage: 35 to 85%RH					
Protection structure		IP40 (front part, IEC standard)					
Approval		C€ : 3 PU us					
Weight ^{**2}		Approx. 122.2g (approx. 75g)					

X1: Refer to time specifications for control time setting range by model.

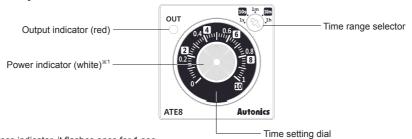
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X2: The weight includes packaging. The weight in parenthesis is for unit only.

^{*}Environment resistance is rated at no freezing or condensation.

Analog Timer

Unit Description



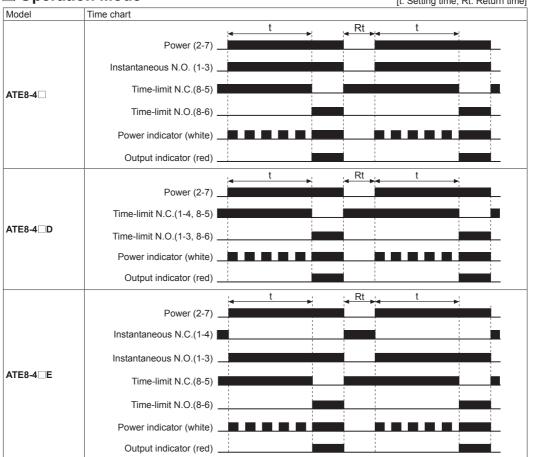
※1: As time progress indicator, it flashes once for 1 sec.

■ Time Specifications

Model	Time range	Time unit	Time setting range	Model	Time range	Time unit	Time setting range
ATE8-41□	1	s	0.1 to 1 sec	ATE8-46	6	s	0.6 to 6 sec
	10		1 to 10 sec		60		6 to 60 sec
	1	— m	0.1 to 1 min		6	m	0.6 to 6 min
	10		1 to 10 min		60		6 to 60 min
	1	h	0.1 to 1 hour		6	h	0.6 to 6 hour
ATE8-43□	3	s	0.3 to 3 sec	ATE8-4C□	12	s	1.2 to 12 sec
	30		3 to 30 sec		12	— m — h	1.2 to 12 min
	3	— m	0.3 to 3 min		24		2.4 to 24 min
	30		3 to 30 min		12		1.2 to 12 hour
	3	h	0.3 to 3 hour		24		2.4 to 24 hour

Operation Mode

[t: Setting time, Rt: Return time]



WWhen time-limit of ATE8-4□, ATE8-4□E is set to 0, time-limit contact operates within 30ms right after instantaneous contact operation.

(A) Photoelectric Sensors

(B) Fiber Optic

> (C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

-

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

> (J) Counters

(K) Timers

> L) Panel Meters

(M) Tacho / Speed / Pulse

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers

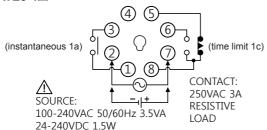
(R) Graphic/ Logic Panels

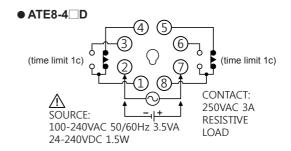
Field Network Devices

(T) Software

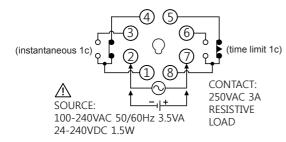
Connections

● ATE8-4



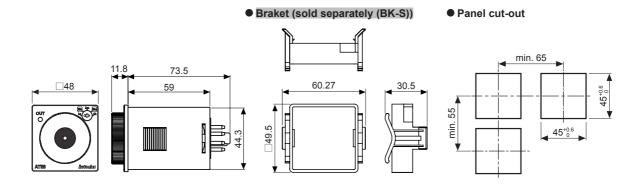


● ATE8-4 ■ E

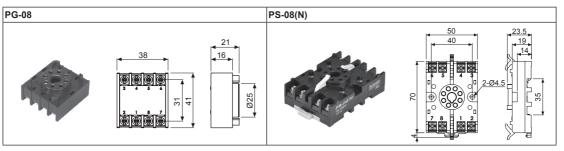


Dimensions

WNameplate design is changed and rear length is shorten than previous.
(unit: mm)



Socket (sold separately)

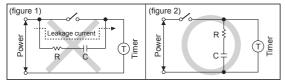


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Analog Timer

■ Proper Usage

- When supplying the power to the timer, use switch, or relay, etc for instant supply. When supplying power slowly, it may cause malfunction.
- When supply the power to the timer, connection shown in (figure 1) might cause malfunction due to circuitous leakage current through resistance (R) and condenser (C). Please connect resistance (R) and condenser (C) as shown in (figure 2) to prevent malfunction due to circuitous leakage current.



- Connect bipolar output contacts as potential.
- Testing dielectric voltage or insulation resistance when the unit is installed at control panel
- ①Isolate the unit from the circuit of control panel.
- ②Short all terminals of the unit.
- Do not use the unit in the following environments.
 - ①Environments with high vibration or shock.
 - ②Environments with strong alkali or strong acid materials
 - 3 Environments with exposure to direct sunlight
 - Near machinery which produces strong magnetic force or electric noise
- This product may be used in the following environments.
 - ①Indoor
 - ②Altitude max. 2,000m
 - ③Pollution degree 2
 - (4) Installation category II

(A) Photoelectric Sensors

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(E) Pressure Sensors

(F) Rotary

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperatur Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meter

(M) Tacho / Speed / Pulse Meters

> (N) Display

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

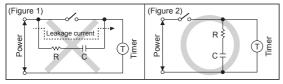
(T) Software

Autonics K-77

Analog Timer

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